

AEP Model UK Model E Model

FM-AM POCKETABLE RADIO

SPECIFICATIONS

Frequency Range:

FM: 87.5 – 108 MHz MW: 530 – 1,605 kHz LW: 150 – 285 kHz LW:

telescopic Antennas:

MW/LW: built-in ferrite-rod antenna

200 mW (with 10 % harmonic distortion) Power Output:

 $6.6 \text{ cm } (2^{1/2})$ dia Speaker:

6 V dc, battery size "AA" 4 pcs (IEC designation R6) Power Requirements:

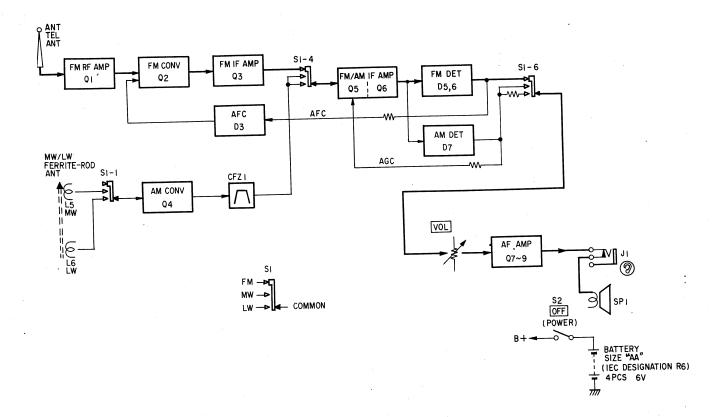
158 (w) x 96 (h) x 43 (d) mm Dimensions:

 $6\frac{1}{4}$ (w) x $3\frac{3}{4}$ (h) x $1\frac{3}{4}$ (d) inches

470 g, 1 lb 1 oz, with batteries Weight:



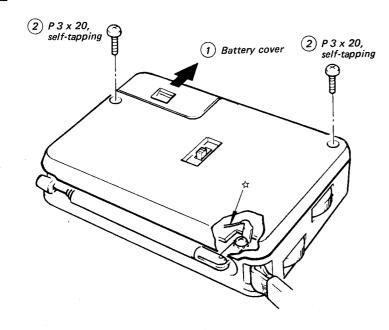
SECTION 1 BLOCK DIAGRAM



SECTION 2 DISASSEMBLY

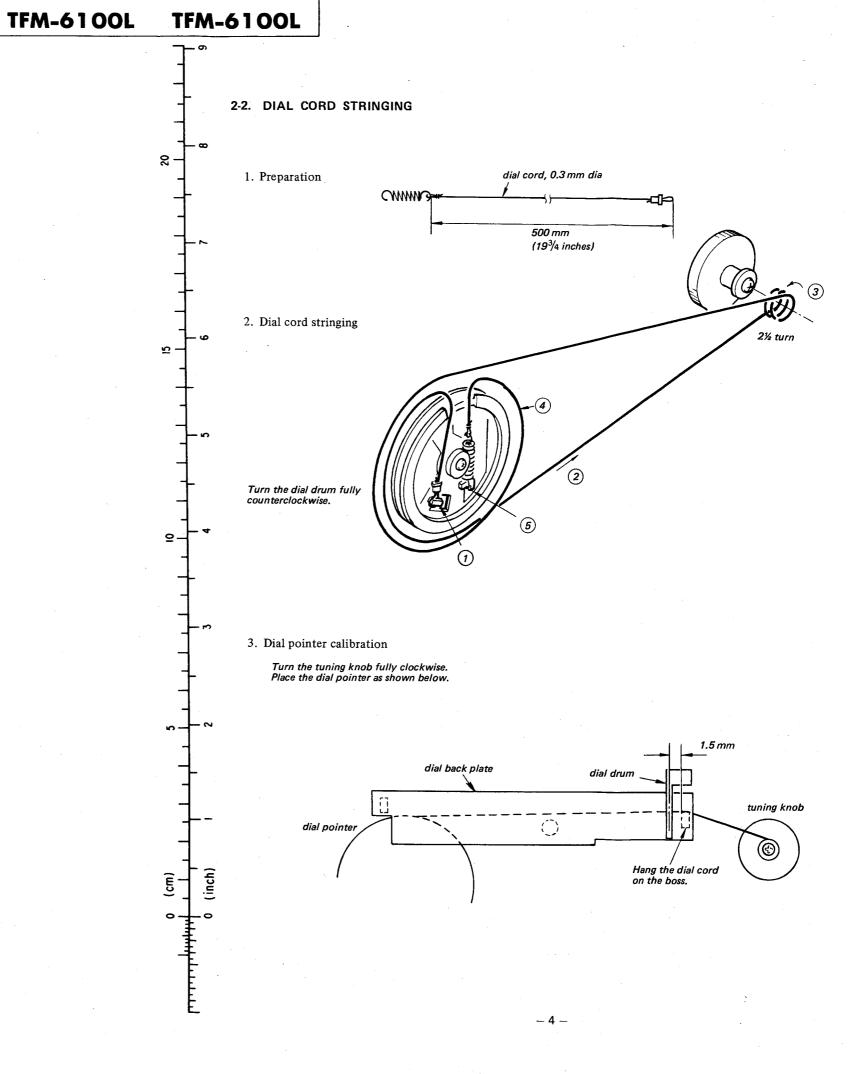
2-1. REMOVAL

- rear cover -



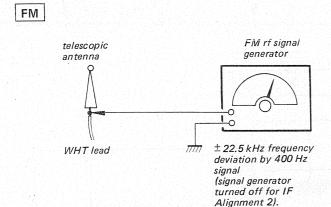
- printed circuit board -

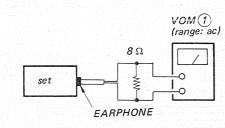
Remove a white lead of the telescopic antenna, ("a" mark in above), then remove the printed circuit board.

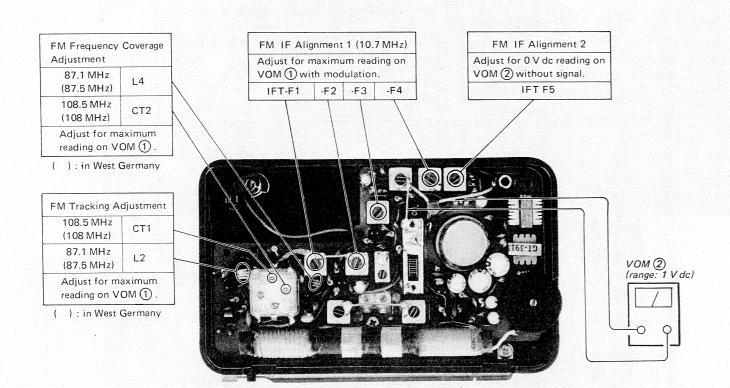


SECTION 3

ADJUSTMENTS

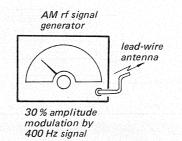


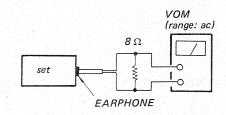


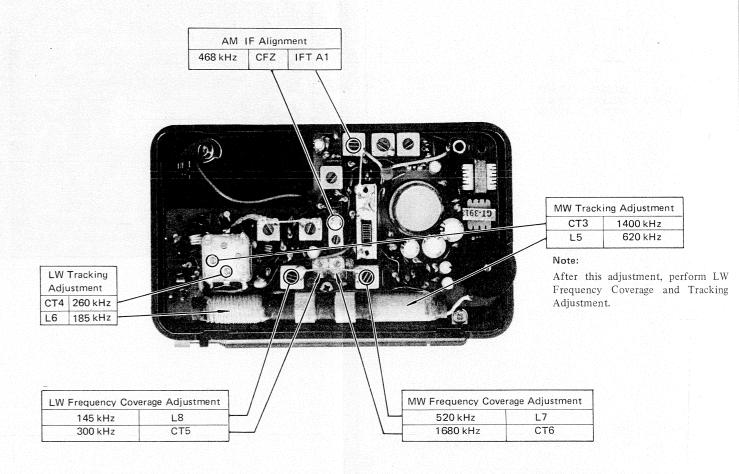


AM IF and MW/LW

Adjust for maximum reading on VOM.







SECTION 4 DIAGRAMS

4-1. MOUNTING DIAGRAM - Conductor Side -

Q1-6, D3: 2SC710



Q7-9: 2SC633A



D8: VD1120



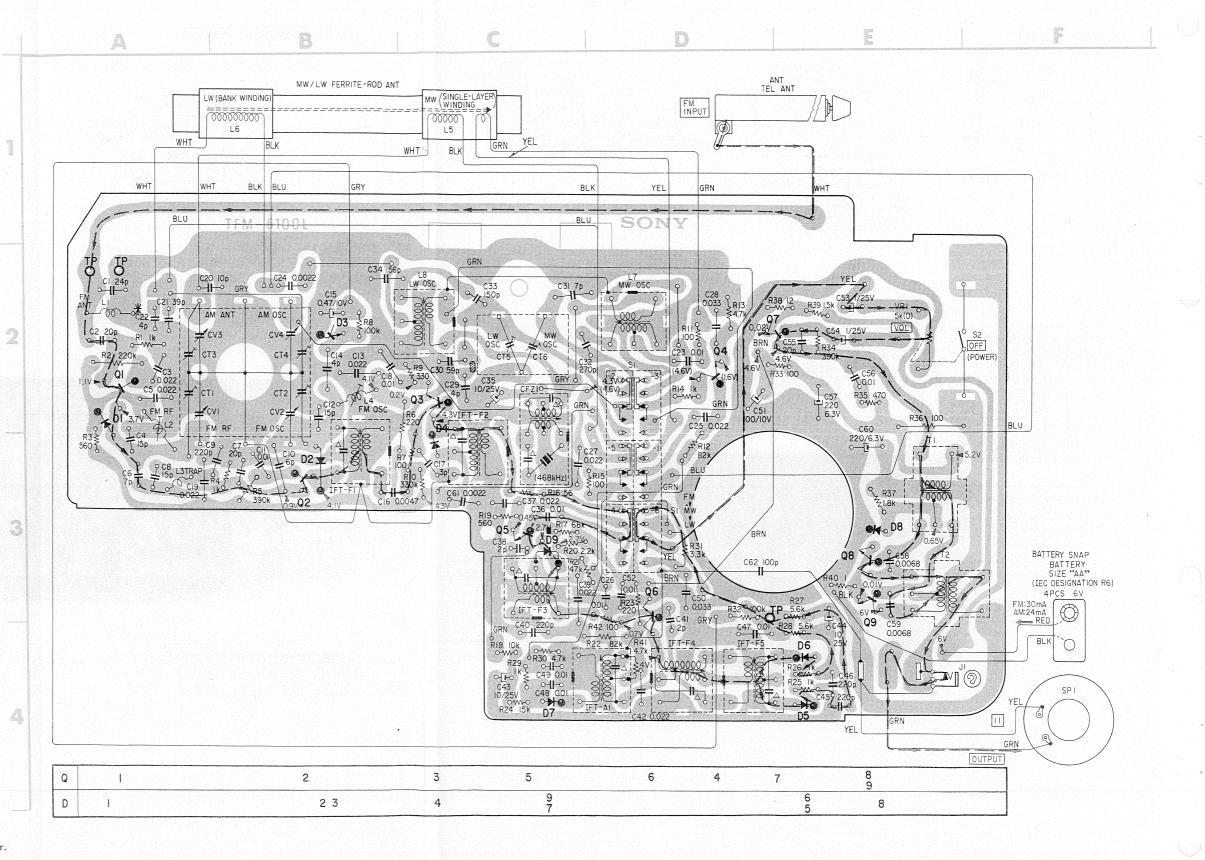
D1, 4 : 1S1555 D2, 5, 6, 9: 1T261 D7 : 1T22A



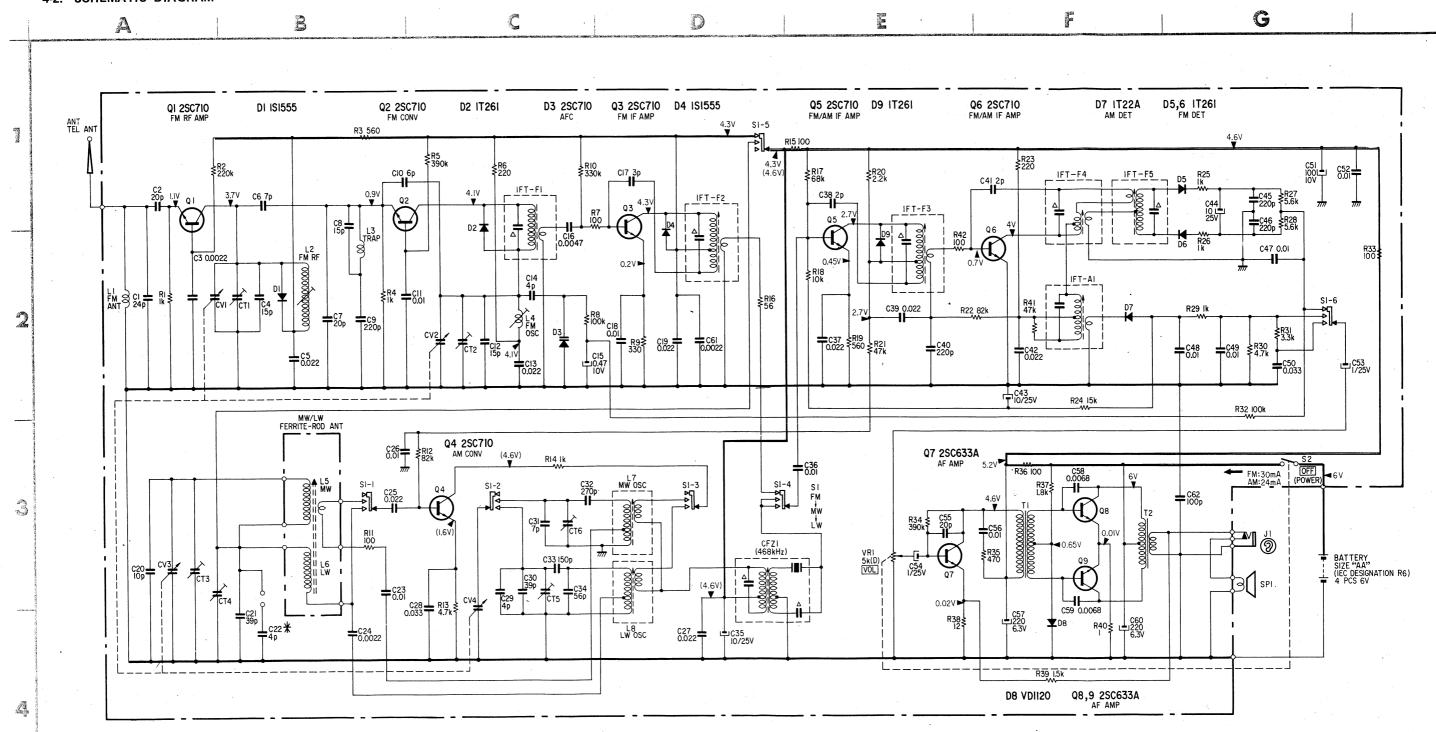
• Color code of sleeving over the end of the jacket.



- : part mounted on the conductor side.
- : indicates side identified with part number.
- B+ pattern
- ___: signal path
 - * : for adjustment.







Note:

- All capacitors are in μ F unless otherwise noted. pF = $\mu\mu$ F 50 WV or less are not indicated except for electrolytics.
- All resistors are in ohms. ¼ W unless otherwise noted. $k\Omega$ = 1000 Ω , $M\Omega$ = 1000 $k\Omega$
- Voltages are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- \triangle : internal component.
- : panel designation.
- Readings are taken under detuned conditions with a VOM (20 $k\Omega/V$).
 - (): AM no mark: FM
- Transistor is used for D3.
 - * : for adjustment.

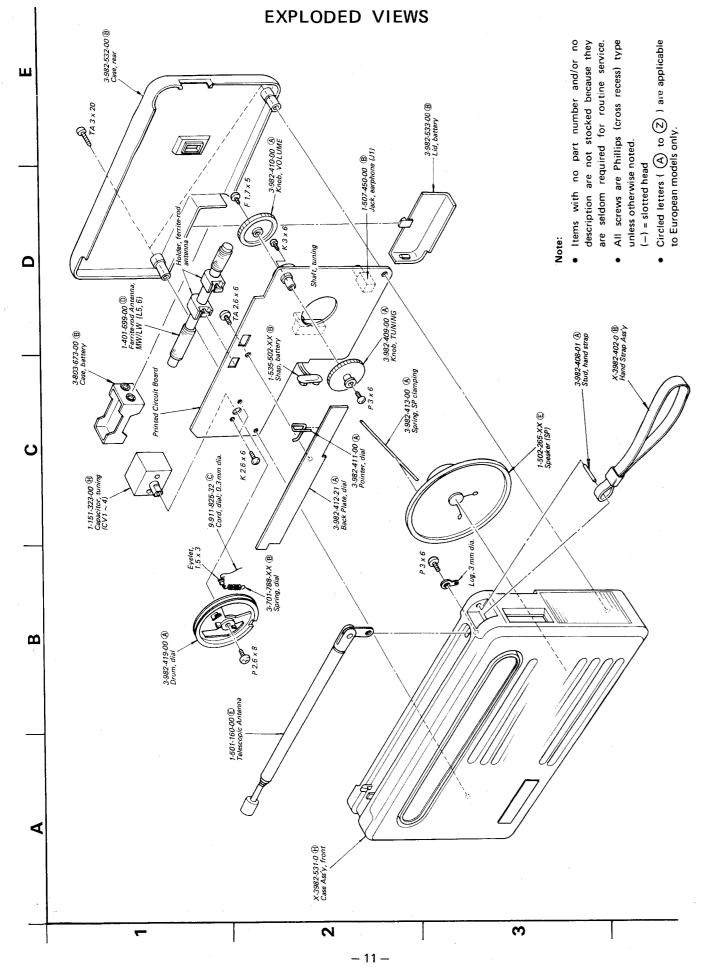
-9-

- : B+ bus.
- Switch

Ref. No.	Switch	Position
S1	BAND	FM
S2	POWER	OFF

SECTION 5

SECTION 6



ELECTRICAL PARTS LIST Note: Circled letters ((A) to (Z)) are applicable to European models only.

Ref. No. Part No. Description	Ref. No.	Part No.	Description	
SEMICONDUCTORS	C6	1-102-944-11	(A) 7 p	
Transistors	C7	1-102-958-11	(A) 20 p	
	C8	1-102-951-11	\times	
Q1-6 (B)2SC710	C9	1-102-978-11	(A) 220 p	
Q7-9 (B)2SC633A	C10	1-102-943-11	(A)6 p	
			<u> </u>	
Diodes	C11	1-101-923-11	A 0.01	
	C12	1-102-670-11	A 18 p	
D1 B 1S 1555	. C13	1-101-924-11	A) 0.022	
D2 B1T261	C14	1-102-937-11	(A) 4 p	
D3 B 2SC710	C15	1-127-022-11	A 0.47 10 V	solid aluminum
D4 B 1S 1555			·	
D5, 6 B 1T 261	C16	1-101-922-11	A 0.0047	
	C17	1-102-936-11	(A) 3 p	
D7 B)1T22A	C18	1-101-923-11	A)0.01	
D8 BVD1120	C19	1-101-924-11	A) 0.022	
D9 (B)1T261	C20	1-102-947-11	A 10 p	
Coils				
	C21	1-102-965-11	(A) 39 p	
L5, 6 1-401-699-00 DFerrite-rod Antenna,	C22	1-102-937-11	(A) 4 p	
MW/LW	C23	1-108-239-12	(A) 0.01	mylar
L7 1-405-761-00 BMW Osc	C24	1-108-230-12	A 0.0022	mylar
L8 1-405-762-00 J LW Osc	C25	1-101-924-11	A 0.022	
	1			
Transformers	C26	1-108-239-12	\simeq	mylar
	C27	1-108-242-12	\times	mylar
T1 1-423-066-XX BInput	C28	1-108-244-12	\simeq	mylar
T2 1-427-429-00 BOutput	C29	1-102-937-11	(A)4 p	
	C30	1-102-965-11	(A)39 p	
IFT, A-1 1-403-813-00 (B)AM IFT				
IFT, F-1 1-403-899-00 (B)FM IFT	C31	1-102-944-11	¥	
IFT, F-2, 3 1-403-284-00 (B)FM IFT	C32	1-103-711-11	<u> </u>	
IFT, F-4 1-403-903-00 BFM IFT, Discriminator	C33	1-103-705-11	<u> </u>	
IFT, F-5 1-403-902-00 (B)FM IFT, Discriminator	C34	1-102-730-11	\simeq	
	C35	1-121-651-11	(A) 10 16 V	elect
CAPACITORS				
	C36	1-101-923-11		
All capacitors are in μF and ceramic unless otherwise noted.	C37	1-101-924-11	A) 0.022	
50WV or less are not indicated except for electrolytics.	C38	1-102-935-11	\sim -	
$pF = \mu\mu F$, elect = electrolytic	C39	1-101-924-11	\sim	
	C40	1-102-978-11	(A)220 p	
C1 1-102-960-11 (A) 24 p				
C2 1-102-958-11 (A) 20 p	C41	1-102-935-11	<u> </u>	
C3 1-101-919-11 (A) 0.0022	C42	1-101-924-11	\sim	
C4 1-102-951-11 (A) 15 p	C43, 44	1-121-651-11	\sim	elect
C5 1-101-924-11 (A) 0.022	C45, 46	1-102-978-11	(A) 220 p	

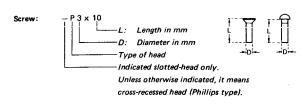
TFM-6100L

Note: Circled letters (A to Z) are applicable to European models only.

Ref. No.	Part No.	Descrip	otion	
C47, 48, 49	1-108-239-12	0.01		mylar
C50	1-108-244-12	A)0.033		mylar
C51	1-121-414-11	A)100	10 V	elect
C52	1-101-923-11	(0.01)		
C53, 54	1-121-391-11	A)1	50 V	elect
C55	1-102-958-11	A)20 p		
C56	1-108-239-12	A)0.01		mylar
C57	1-121-420-11	B)220	10 V	elect
C58, 59	1-108-237-12	A)0.0068		mylar
C60	1-121-420-11 (B)220	10 V	elect
C61	1-101-919-11 (A)0.0022		
C62	1-101-923-11 (A)0.01		
		$\overline{}$		
CFZ		C)CFZ		
CT5, 6	1-141-146-XX(er	
CV1-4	1-151-323-00 (H)Tuning		
	MISCEL	LANEOU	s	
ANT	1-501-160-00 (E)Telesco	pic Ant	enna
J1	1-507-450-00 (B) Jack, e	arphone	•
S1	1-552-186-00 (C)Switch,	, slide; F	M/MW/LW
S2	1-224-077-21(B)Switch VR1	; POWE	R included in
SP	1-502-265-XX (E)Speake	r	
VR1	1-224-077-21(~	r, 5 kΩ	; variable;
	1-535-502-00 (BSnap, t	oattery	•

A	CCESSORIES	
Part No.	Description	
X-3982-533-0	E Carton Ass'y	
1-504-055-12	B Earphone (ME-20H)	
3-846-826-01 3-982-427-00 3-982-436-11 3-982-436-21 3-982-437-01	 A) Sheet, protection A) Sheet A) Manual, instruction A) Manual, instruction A) Label, FTZ 	(AEP, E model) (UK model)

HARDWARE NOMENCLATURE



Nut, Washer, Retaining ring:

N 3

Diameter of usable screw or shaft

Reference designation

Reference Designation Shape		Description	Remarks
	···	SCREWS	
Р	₽	pan-head screw	binding-head (B) screw for replacement
PWH	₽	pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS PSP	853-	pan-head screw with spring washer	binding-head (B) screw and spring washer for replace- ment
PSW PSPW	98	pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
R	€	round-head screw	binding-head (B) screw for replacement
К	Þ	flat-countersunk-head screw	
RK	€	oval-countersunk-head screw	
В	€	binding-head screw	
Т	₽	truss-head screw	binding-head (B) screw for replacement
F	flat-fillister-head screw		
RF	€[]	fillister-head screw	
BV	₽	braizer-head screw	

Reference Designation	Shape	Description	Remarks	
		SELF-TAPPING SCRE	ws	
TA	⊕	self-tapping screw	ex: TA, P3 x 10	
РТР		pan-head self-tapping screw	binding-head self- tapping (TA, B) screw for replacement	
PTPWH		pan-head self-tapping screw with washer face	binding-head self tapping (TA, B) screw and flat washer for replacemen	
PTTWH		pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement	
	1	SET SCREWS		
SC		set screw		
sc	©	hexagon-socket set screw	ex: SC 2.6 x 4, hexagon socket	
		NUT		
N	10	nut	,	
		WASHERS	· · · · · · · · · · · · · · · · · · ·	
w	0	flat washer		
sw	⊕ 4	spring washer		
LW	0	internal-tooth lock washer	ex: LW3, internal	
ĹW	0	external-tooth lock washer	ex: LW3, external	
		RETAINING RINGS		
E	0	retaining ring		
G	®	grip-type retaining ring		

Sony Corporation

Service Bulletin

Date	23 Aug 78	Ref. N° TR-0	00578 Model	TFM-6100L
Subjec	Correction of S/ Correction du M/ Berichtigung des	5	lbuchs	

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